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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,686	07/24/2006	Kenji Yoshisuc	056272.57598US 3603	
23911 7590 12/10/2007 CROWELL & MORING LLP		EXAMINER		
INTELLECTUAL PROPERTY GROUP			QIN, JIANCHUN	
P.O. BOX 14300 WASHINGTON, DC 20044-4300			ART UNIT	PAPER NUMBER
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			MAIL DATE	DELIVERY MODE
			12/10/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		TH				
	Application No.	Applicant(s)				
Office Action Commence	10/575,686	YOSHISUE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jianchun Qin	2837				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be ting rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	_•					
2a) This action is FINAL 2b) ☑ This	action is non-final.					
3) Since this application is in condition for allowar closed in accordance with the practice under E	•					
Disposition of Claims						
4) Claim(s) 1-5 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5</u> is/are rejected.	6)⊠ Claim(s) <u>1-5</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examine	r.					
10) \boxtimes The drawing(s) filed on <u>4/13/06</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).				
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
• •	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D 5) Notice of Informal F					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4/13/06.	6) Other:					

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DETAILED ACTION

Specification

1. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).
- 2. Please visit http://pair-direct.uspto.gov to retrieve any US references to see the format in formulating an application.

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Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshisue (JP 2004226949, English translation) in view of kido et al. (U.S. Pat. No. 6051307).

Regarding claim 1, Yoshisue teaches a repetition lever for a grand piano (Abstract and Drawings 1 and 4), which performs the operation of pushing up a hammer after the hammer has struck a string, wherein the repetition lever (5) is formed by a molded article of a synthetic resin containing carbon fibers for reinforcement (Abstract; ¶ 0011, 0014 and 0019).

Yoshisue does not mention expressly: wherein the repetition lever is formed by a molded article of a thermoplastic resin containing long fibers for reinforcement, the molded article being molded by a long fiber process.

kido et al. teach a technique for forming a molded article of a thermoplastic resin containing long fibers for reinforcement, the molded article being molded by a long fiber process (Abstract; col. 2, lines 40-57).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the teaching of kido et al. in the invention of

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Yoshisue in order to provide a repetition lever excellent in appearance and mechanical strength (Yoshisue, Abstract; kido et al., col. 2, lines 55-57). The mere application of a known technique to a specific instance by those skilled in the art would have been obvious.

Regarding claim 2, Yoshisue does not mention: wherein the long fibers have a length not shorter than 0.5 mm.

The teaching of kido et al. includes: wherein the long fibers have a length not shorter than 0.5 mm (Abstract).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the teaching of kido et al. in the invention of Yoshisue in order to provide a repetition lever excellent in appearance and mechanical strength (Yoshisue, Abstract; kido et al., col. 2, lines 55-57). The mere application of a known technique to a specific instance by those skilled in the art would have been obvious.

Regarding claims 3-5, Yoshisue teaches: wherein the long fibers are carbon fibers (Abstract); wherein the thermoplastic resin is an ABS resin (¶ 0031 and 0037); and wherein the repetition lever (5) has a reduced cross-sectional area portion for reducing weight thereof (Drawing 4; ¶ 0025).

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Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jianchun Qin whose telephone number is (571) 272-5981. The examiner can normally be reached on 8am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lincoln Donovan can be reached on (571) 272-1988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JQ <u>[</u>]()

Jianchun Qin Examiner Art Unit 2837

SUPERVISORY PATERY EXAMINER